Why a Year Is All Too Short for a Soldier's Training

Regular Army Officer Shows Futility proportion to the strictness of discipline that pervades them. Discipline is not instinctive, but of actual war in an area large enough of actual war in a contract of the actual w of the "Million Men Over Night" Preparedness

much in vogue to-day. Comparatively few of our people know in what such training actual war. Here their commands become themselves, and they must shoulit is to the conduct of modern war. The antiquated idea that any man der the blame for all deficiencies in

in a uniform with a gun is a soldier is distressingly prevalent. The fact is that such a man without at least one likely to be long delayed or particuyear's sol'd and strict apprenticeship larly pleasant when it comes. to the skilled trade of arms is very

multitudinous details in which a trained soldier must be skilled. However, young Americans who have undergone the mental training of the average public school and who enter upon the duty earnestly and willingly will master the rudiments of soldiering in that time, provided they are prop-

To show the nature of the training necessary we will suppose that one hundred thousand young men of the above description had volunteered and assembled for military instruction on one of our great Indian or forest reservations in Arizona or New Mexico, where outdoor work is possible the year round, and ask:

What course would they pursue? Roughly this:

The first month would be consumed in the recruit's finding himself—a process having many of the aspects of losing himself. He must be divested of every ounce of superfluous baggage and be fitted and provided with uniform and equipment. An uncomfortable pack or pair of shoes are soul destroying afflictions, where if properly adjusted they soon become matters of small concern.

The care of himself, of kit and equipment; when, where and how these are obtained; their cost, his responsibility for them and their ar rangement for various inspections are all matters requiring time to learn. Then there are the Articles of War, the application of military justice, his relation to the army, the Government and to civildom to be learned.

There are also the various fatigues (work required other than that which is strictly military) to be explained and performed. From the start setting up exercises and drills without arms must take place and regularity and precision be insisted upon.

The second month the recruit should be given his rifle and the handling and care of it taught. Squad, platoon and company close order drills, callsthenics, swimming, riding, &c., would fill each day with the physical instruction necessary. The study of the vital parts of army regulations, the duties of sentinels on various guards, the carrying and correct delivery of orders and lectures on hygiene and canitation would consume the rest of

The third month would advance into the battalion and regimental close or der drills and ceremonies, the physical exercises continued and first aid, sig-nalling and how to cook for himself ple tactics and the relation of the various branches of the service to each other should be given here, and, also, preparatory to the coming month. talks on camp expedients, marching and the use of field ration.

Altogether for the uninitiated no small three months work. For the individual, if not the hardest, they are the most trying.

Homesickness usually sets in, rendering mind and body sensitive and irritable, and, though the ills he is undergoing are mostly imaginary, they are to him none the less real for being so. For this reason these months should be spent in simple barracks and simple comforts provided. Also such barracks would prevent much of the citsease usually attendant upon an abrupt change from home to camp

A study of our concentration camps during the Spanish war shows that no effort should be spared to make the transition from civil to military employment as gradual as possible. Three months in airy barracks, with an occasional camp, won't prevent all sickness, but will prevent much of The fourth month would be spent in

camp and all that goes to make such a life not only endurable but enjoyable put into effect. Extended order drills should be the rule, with the study and practice of patrolling, scout- fering. ing, road sketching and general reconnaissance. Short marches without pack should be frequent and lectures stacles, demolitions, the effects of sity of this principle, so are armies in knowledge producer. rifle and cannon fire, the knowledge and use of cover and the elements that enter into successful assaults.

The fifth month should have longer marches, light packs and frequent changes of camp site. Simple tactical problems should be solved, with led ures and practice in advance and rear guard actions, outposts and convoy operations. The soldier must know and duty he is performing in order to act many intervening miles. Wonderful have been right, intelligently; for instance, what would as this seems offhand, simple princiadvance guard might be suicidal with ples are involved and a mechanism a convoy, and vice versa.

The sixth month's operations should to new uses. be by brigade and the marches and! The seismograph has been employed problems extended into a terrain of hills, defiles and rivers. Map making, bridging and construction of tempo- blings due to a readjustment of the rary and permanent intrenchments massive crust which forms its surface. should be taught and put into effect of late the seismograph has been made through simple problems of offence still more acute and earthquakes origiand defence between brigades.

should be devoted to the division, that of miles away have been felt by the all important tactical unit upon which apparatus and duly recorded in wavertattles to-day depend. Hard and ing lines upon the paper enveloping a realous preliminary training by all of its components is necessary in order revolving cylinder. In this way the judge of the remoteness and of the that the division may start unhandi- relative intensity, the duration and the calibre of the far off gun.

Here, in war, there is little or no time for individual training. Men, equads, companies, battalions, regi-

quired and falling lightly on those who are amenable, but nettlesome often using heavy and horse artillery, airbeyond endurance to the egotistical craft, pontoons, the wonderful sigand the vanity stricken. From the MAJOR WILLIAM WALLACE, business, or confusion reigns and or-very first in the exactions of prompti-der—that primary requisite of human tude, precision and close attention it and which can only be brought into ILITARY training is a term as well as mechanical machines— has been instilled with gradually inis in division exercises that officers and straining of that great human perfected in time of peace. receive the experience to fit them for mass—the division—it finally becomes confirmed.

ble to order, and no matter how intel- gether the most important and interthem, and in the life and death game ligent or individually well trained a esting, and with the time which peace of war censure for inefficiency is not man may be, as a soldier he is worse practice allows for corrections, bethan useless—a danger—until he has fore it is over the armies should move In the twelfth and last month exlearned to obey unhesitatingly and with clocklike precision. The lives aminations should be held which, without question the orders of his suand money this precision would save with due consideration of records we all know that the organization of likely to be more of a drawback to his ligent officers and men plainly see periors. The superior is responsible, us in war would compensate the cost, made during the year, should deter- our railroads, or, better, making them friends than a menace to any credit- that they must keep themselves up to the subordinate isn't, and in division trouble and temporary hardships to the top notch of efficiency if they are superiors are very likely to have that attain it in peace a thousand times of the army.

into play all the previous training of all the troops. Time off should be devoted to non-commissioned officers' schools for the purpose of fa-miliarizing large classes with army

administration, paper work, &c. Not a moment should be lost. The ninth month should see the each other with all the particularity part of the training last. rather a matter of habit, easily ac- to make a small theatre of war, with nalling apparatus and the many other play with great bodies of troops and nals for movements and firing, and the whose skilled handling can only be

firing and general familiarity with his weapon. Further than that it is of small avail in battle firing.

small avail in battle firing.

Here the target is rarely visible and
the range problematical and to be
figured by range finders and communicated to the firers by signals. Results are obtained here, as everywhere else in militarism, only by strict obedi-ence—by discipline—and this is one

Untrained men will not obey instinctively in the excitement of even a peace field firing problem—not wilfully disobey, but they will not have acquired the habit of attention so essen tial to intelligent and concerted action. Moreover, at first they would the subject from an administrative not have been familiar with the sigvoice cannot be heard.

As all cannot shoot at once much forced marches, sleepless nights, of voted to reviews of the subjects they hunger and thirst and dirt, but alto- have learned and imparting many upon such a move as essential to our national well being.

T before the Railroad Club of Gen. Leonard Wood Outlines Impor. tant Part They Play in the this city a short while ago upon the part the railways of Repelling of Invasion the country might have to play should war be imminent. He addressed a body of men peculiarly fitted to grasp What Gen. Wood has to say about mobilizing the railroads of the point of view, but the public at large United States is of special significance in the light of the part played has no knowledge of this exchange of expert opinion. This article is in by the railways of Europe in the present war. More than one battle tended to enlighten the layman. has been won through the aid of railroads, and others lost because "Organizing our railroads for pos such lines of communication and supply either failed or were lacking. sible military service: what do I think Fighting forces being equal, victory is likely to go to the army having

for National Defence

the greater measure of mobility; and upon railroads will necessarily

rest the principal burden of speedy transportation. Gen. Wood is not

permitted to discuss any phase of military operations in Europe, but

Organizing the Railroads

his views concerning the needs of the United States provide material for serious consideration. most important contributives to natime in seeking the cooperation of the

railroads. "Normally our rail routes are potent agents in our national development and material betterment. This machinery of peace, which contributes so much to the tide of our prosperity, should be readily adaptable to defensive service if the occasion arise. But this would not be possible with us un-"The vast area of our country, our less some scheme of general cooperalong coast lines, all make it most im- tion were agreed upon in advance portant that our use of the railroads only among the roads themselves but should be upon carefully thought out as between the roads so united in purplans. This includes many a little pose and the general government; in short, organization in the fullest sense

place commercially, but important of the word. nevertheless from a military stand- "The General "The General Staff of the army has point. As C. H. Markham, president studied this problem from every angle of the Illinois Central Railroad, has The officers engaged have been highly recently said: 'Protection to be ef- trained men, but their work has been fective must take into account not done without the aid of the railroads only accustomed gateways but iso-themselves. In a large measure the lated localities. Branch lines become task has been dealt with from the

ganizing we cannot afford to lose any action arrives. For this new service at his accustomed post he will cooper ate with the army authorities, carrying out in the way he knows best the things needful to military ends.

But this cooperation must go further than that of managing existing trunk lines. The authorities must be in a position to build, repair and operate possibly new roads. Lines where there are only single tracks now may have to be doubled or existing routes otherwise amplified so that trains may be rushed to the front and the relatively empty cars be hastened back to the rear or base of supply.

There must be sidings where care can be run for unleading without in-terfering with continuous traffic, and these expansions may be called for as out of the way points simply because he enemy may try to take us on the flank instead of attacking at once his ultimate objective—a large seaport. It was just this that Mr. Markham meant when he sail "the fingers are as important as the arm." Now we come to an organization of railroad te-

As fine and as efficient as I- the kingineer Corps of the army, these highly trained men are called upon to do a class of work quite apart from that of railroading. Therefore it is necessary to supplement this corps in time of taliroad work of every sort. These civilian specialists of to-day would become part of a definite organization upon the outbreak of war and every field army would need a certain number of them.

Because of their familiarity with railroad construction, bridge building and all manner of repair work, they would know best how to utilize such materials as might be immediately available. The problem would not be alone that of administering or operating well appointed lines. The task would be that of keeping up existing routes laboring under the stress of excessive service as well as the reopening of ines possibly damaged by a foe. And this leads to the consideration

of that form of defence which mich involve aggressive operations. For instance, if we should be obliged to g into a foreign country the undertaking for us there would probably be akin to the difficulties we would interpose here to the advance of an enema-Besides having at hand a force of rail and operators and builders we should ave accurate knowledge beforehand ry and their condition, so that ild bring up the necessary

said: "In California the departme mander received orders during night to take two regiments of try to San Diego. The with wagon trains, tentage tion, rations, forage were ready before daylight; if that day for the rallroad the necessary transportat regiment and still longer ! and it required from three

"And there is food for is, none of them has been

action should embrace every railroad by the military and tra tion with the general government in a freight for commercial

States are an essential par money and material represents the backing behind that cutting edge. Unless a nation's resources are so organized and are ever ready and available, what are its chances against a foe that has prepared himself thoroughly?





Field artillery men at gun drill.



Standing, kneeling and lying manikins for target practice.

fering. It aids discipline by compel- opportunity to put into constant practice would occupy the tenth and loaded cars must wait weeks, ing-that's our favorite we ling it throughout all ranks, and disting a threaten. It is therefore evident that hooves us, as a nation, and in justice threaten. It is therefore evident that in some cases, before they can be un- throwing great masses of masses of masses and the constant practice. ling it throughout all ranks, and discipline is to human masses what cocipline is to human masses wh pack should be frequent and lectures and as these are soft or hard, weak or the mass of non-essential. In the known distance away. Of course this the light of a vogue or a fashion, but strong, in accordance with the intensities as a stern factor now underlying the trenchments, the construction of observed the practice is the only true practice is the only true of this principle so are armies in the use of sights, positions of doctrine of self-preservation. and as these are soft or hard, weak or the mass of non-essential. In the known distance away. Of course this the light of a vogue or a fashion, but

It aids discipline by compel- opportunity to put into constant prac- would occupy the tenth and eleventh the nation's military success, it be- indeed, we should have to do it did war and loaded cars must wait weeks, ing-that's our favorite were

ern standards.

instrument out of service for the time their number and register their cently he has perfected an apparatus A street car makes its own peculiar being or, better still, separate the trac- of the word, means not only the army greatly needed in time of conflict, both voying transports was

burdensome tryout process is never

which means preparation before con-

siege guns have made the earth tremble so that the vibrations were picked up at far away Laibach. heavy guns, and a means of getting a earth wave producers. But Prof. Belar vatory at Labach has been too remote

check on distances was secured by tak- has produced a table of signs, and the to identify the character of the ating records at various ranges and with ordnance officer is expected to know tacking ordnance, but at closer range, different kinds of weapons, thus actions as a shorthand writer knows say within twenty-five miles of the firing line, niceties of detection are calibre of the far off gun.

Since then Prof. Belar has been patiently developing his instrument, and now he has an outfit that can be and the Austrian scientist labored to produce an efficient and yet a compact inand long training. The railroad man duce an efficient and yet if a day of strife come it is and yet if a day of strife come it is and yet if a day of strife come it is and yet if a day of strife come it is and yet if a day of strife come it is and yet if a day of strife come it is and yet if a day of strife come it is and yet if a day of strife come it is and yet if a day of strife come it is and yet if a day of strife come it is and yet if a day of strife come it is and yet if a day of strife come it is and yet if a day of strife come it is and yet if a day of stri possible. It was for this reason that

familiar with the nature of the calibre, and to do these things despite for military service that proves him to autographic record, while a rumbling ings made by friendly rifles from those but all other agencies which may tend for the maintenance of the civil popu- between Asia and Monto make that arm effective, and this lace and the fighting forces as well to the southern coast of Early in 1907 this Austrian scientist road or street leaves its identifying worked out a plan by which the seis-

behind that edge serves to renew it way that would give due considera- stopped. from time to time and to give the tion to the civil and military needs of edge the rigidity, the strength and the the hour. weight needful to carry the stroke through. The organized reserve of men, essary to make use not only of the military resources and

Infantry at battle practice supported by machine gun. tertained with games, festivities of all of importance subtantially equal to theoretical point of view. Now we

It comprises only the fundamentals, of supplies—food, guns, ammunition, railroads and our military experts must the foundation, of all soldierly em. &c.—must have prompt transportable brought together and from their ployment. Six months more of hard tion. The sick and wounded must joint labors must spring a work will be required to produce cred- be carried quickly to the rear, and reciprocal action, a scheme of interitable cavalry and field artillery, an ample subsistence must move steadily dependence that will evolve unity of additional year to perfect signallers forward from established bases of sup- working and instant readiness on the and engineers, while to develop avi- ply. And then there is the more part of every railroad in the country. ators and ordnance experts with the strictly mechanical side of the problem.

"While I can't discuss this question

"The veriest layman knows that

only by means of our railroads would

it be possible to despatch promptly

able body of troops. Not only this,

but our capacity to meet a military emergency would of necessity hinge

in the first place upon celerity of

and to move successfully a consider-

tional defence.

ending. All and not excluding the "Clearly the bigger the forces the who have also studied the questic staffs of the great administration and larger their demand for food and the that believe that something should be supply departments should undergo greater the wastage, and these must done, and be done quickly. Abroad the training prescribed above in order be made good. Without an abundance perfection in this department of milito be efficient in accordance with mod- of munitions artillery, &c., would become useless. Admitting this, what

'In many foreign countries the rail. conditions of national life and of progflict, has become as absolute a prin-ciple of war as are order and disci-their control and use in the hour of their control and use in the hour of does not begin to grasp the bigness of the does not begin to grasp the bigness of the hour of the hour of does not begin to grasp the bigness of the hour of such an undertaking. Yet right that in the present and future policies ple matter. Please notice that I say here in New York there has of late of the great nations this principle is comparatively, and emphasis should been given more than one significant recognized to the extent not only of be laid upon that word and not upon hint of what might happen in time of preparing every ablebodied man to in- simple. But where the railroads are menace from without, stantly take his place in ranks on owned and managed by private the capport trade has converged any call to arms, but that the social, panies—and there are many of these upon certain scaboard cities, and at stantly take his place in ranks on owned and managed by private comany call to arms, but that the social, paintes and the part interest intere ranged and scientifically adjusted that grat y these various systems would inevery ounce of energy in the nation volve a tremendous task. And yet we sumption has been going on. As a shall be contributory, on occasion, to should be able to do this very thing: result many terminals are crowded tion in this. We often spea

"Organization, in the broadest sense And yet these very things would be were received that a h

portant as the arm." The above by no means embraces The above by no means embraces time? These are question the entire range of military training. ready to move men, the land all kinds of cooperation and organization. The must, as far as possible,

When it is considered that training, then?

not a sudden effort to cast up national normal, but even so it does not com- ganism; and the rath resources with a view then to consid- pare with the demands that would be veins and arteries of ering how best to distribute those as- put upon railroad lines should war be They are none of them in sets for defence. Mobilization means imminent or actually existing. to fit an army already in existence for immediate service and to move those to deal with this congestion by de-

mograph was to be used as an artillery detector, and the idea of thus finding distinct from the tremors set up by been well nigh exclusively to firing a gun is found to be quite bach Observatory, where his may are but a part of this. Francisco to have agreed upon a common course, out something about the foe appealed the blow of an exploding shell upon nection with seismological problems. can put this figuratively:

"The sister defensive services may but in time of war this concert of road on the Coast were instruction."

"This is organization in a sense with timate association and possibly special orderly handling by call

So far Gen. Wood is permitted :

by years of preparation and ceaseless

arranging of details to fit changing

ress in the neighboring countries.

To mobilize the railroads it is nec-

kinds, including military exercises and main arteries. The fingers are as imtical consideration of the matter, and "Not only must the railroads be this is a very big part of the problem est time? These are questions that pated.

not permitted to give any specific stances, but not long ago an essa Service Institution which is quoting from now. In considered the question the railroads and cited some concrete pened here in time of peace w ing to transport a small nulliary for

of less than 500 miles.

"The railway systems of

matter. In this great work of or- his part is to be when the hour for mies will be of little

SEISMOGRAPH N Austrian scientist has discov- and the tremors are all of them ap- vice declare that one familiar with the by means of telephone or wireless so fighting men with the least possible claring an embargo upon certain ex-Austrian scientist has discovered a way to make an enemy's parently characteristic of their promeaning of the records can tell at once that he knows when the guns are to delay to a given objective. In short, ports, such, for instance, as bulky that he knows when the guns are to delay to a given objective. In short, ports, such, for instance, as bulky to make an enemy's parently characteristic of their promeaning of the records can tell at once that he knows when the guns are to delay to a given objective. In short, ports, such, for instance, as bulky to make an enemy's parently characteristic of their promeaning of the records can tell at once that he knows when the guns are to delay to a given objective. In short, ports, such, for instance, as bulky to a given objective that he knows when the guns are to delay to a given objective. In short, ports, such, for instance, as bulky to a given objective that he knows when the guns are to delay to a given objective. In short, ports, such, for instance, as bulky to a given objective that he knows when the guns are to delay to a given objective. In short, ports, such, for instance, as bulky to a given objective. In short, ports, such, for instance, as bulky to a given objective. In short, ports, such, for instance, as bulky to a given objective. In short, ports, such as a su guns betray their location, tell Prof. Belar has long believed, and re-

long known is merely modified to fit it

for years to register the earth's trem-The seventh and eighth months nating hundreds and even thousands! approximate remoteness of the dis-

turbances have been automatically detected and registered.

at Gurkfeld. There Prof. Belar actu- far off in the hidden distance. ally obtained by his special apparatus Of course the story is plain only to a record of the vibrations propagated one familiar with the characteristic through the ground by the firing of signatures of the different sorts of quiring visual standards by which to the meaning of his symbols.

But earthquakes are not the only carried about in a handbag. Those got over by putting the seismograph speedily transported by hand from I don't have to elaborate upon this But to do this he must know just what schemes must know their things that make the ground vibrate. Who have seen the apparatus in ser- man in touch with his own artillery point to point.

wagon or a field piece traversing a occasioned by the rival weapons. very strongly to the Austrian Ministry the ground. This reverses the tell- Laibach is something short of fifty be likened to the cutting edge of a War. The matter was referred to tale performance, because it indicates miles from a part of the Austro-Italian very heavy knife. The mass of steel in the country and include coopera- every passenger and every heavy knife. the Inspector-General of Artillery and how an Austrian projectile behaves and battle front. There some of the greatsome time later tests were undertaken whether or not it has found its mark est artillery duels of the world war at Gurkfeld. There Prof. Belar actu- far off in the hidden distance.

In actual service the observer at